```
=> d que stat 111
              1 SEA FILE=REGISTRY ABB=ON "HPTH-(1-34)"/CN
              1 SEA FILE=REGISTRY ABB=ON "VITAMIN D"/CN
L2
              1 SEA FILE=REGISTRY ABB=ON CALCIUM/CN
L3
         161514 SEA FILE=HCAPLUS ABB=ON (?BONE?(3A)(?FRACT? OR ?FORM? OR
L4
                ?LOSS? OR ?LOSE?) OR ?OSTEPOROSIS? OR ?OSTEOGENESIS? OR
                ?SPINE? OR ?SPINAL?)
           1004 SEA FILE=HCAPLUS ABB=ON L4 AND (L1 OR HPTH(W)(1-34) OR ?HPTH?
L5
                OR ?HUMAN?(W)?PARATHYROID?(W)?HORMONE?(3W)(1-34) OR ?HORMONE?(W
                ) ?REPLACEMENT? (W) ?THERAPY?)
            300 SEA FILE=HCAPLUS ABB=ON L5 AND (L2 OR L3 OR ?VITAMIN?(W)D OR
L6
                CA OR ?CALCIUM?)
1.7
            229 SEA FILE=HCAPLUS ABB=ON L6 AND (AGE? OR ?AGING? OR ?GERIAT?
                OR ?SENIL? OR ?MENOPAUS? OR ?KLINEFELTER? (W) ?SYNDROM? OR
                ?HYPOGONAD? OR ?GONAD? (W) ?DISORDER?)
            168 SEA FILE=HCAPLUS ABB=ON L7 AND (?HUMAN? OR ?PATIENT?)
L8
              2 SEA FILE=HCAPLUS ABB=ON L8 AND (?REDUCE? OR ?LESSEN? OR
L9
                ?CONTROL? OR ?DECREAS?) (W) ?RISK?
            168 SEA FILE=HCAPLUS ABB=ON L8 OR L9
L10
             28 SEA FILE=HCAPLUS ABB=ON L10 AND (?METHOD? OR ?TECHNIQ?)
L11
=> d ibib abs l11 1-28
L11 ANSWER 1 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                         2004:857916 HCAPLUS
TITLE:
                         Soymilk or progesterone for prevention of bone
                         loss: A 2 year randomized, placebo-controlled
                         trial
AUTHOR (S):
                         Lydeking-Olsen, Eva; Beck-Jensen, Jens-Erik; Setchell,
                         Kenneth D. R.; Holm-Jensen, Trine
CORPORATE SOURCE:
                         Institute for Optimum Nutrition, Copenhagen, 1452,
                         Den.
SOURCE:
                         European Journal of Nutrition (2004), 43(4), 246-257
                         CODEN: EJNUFZ; ISSN: 1436-6207
PUBLISHER:
                         Steinkopff Verlag
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         English
     Background Given concerns over the use of hormone
AΒ
    replacement therapy (HRT), women are seeking natural
    alternatives to cope with the symptoms and effects of menopause.
    The bone sparing effects of soy protein and its isoflavones is well
    established in animal studies, while 5 previous human studies on
     soy and bone have yielded variable outcomes due in part to their short
    duration of study. Progesterone has been suggested as a bone-trophic
    hormone, but the effect of long-term, low dose transdermal progesterone is
    unknown. Aim The aim of the study was to compare for the first time the
    long-term effects of soymilk, with or without isoflavones with natural
    transdermal progesterone, or the combination, on bone mineral d. in the
    lumbar spine and hip. Methods Postmenopausal
     , Caucasian women with established osteoporosis or at least 3 risk-factors
    for osteoporosis, were randomly assigned, double-blind to one of four
    treatment-groups: soymilk containing isoflavones (soy+, n=23), transdermal
    progesterone (TPD+, n=22), or the combination of soy+ and TDP+, (n=22) or
    placebo (isoflavone-poor soymilk, soy+ and progesterone-free-cream
    TDP÷, n=22). All subjects received comparable intakes of
    calcium, minerals and vitamins. Bone mineral content (BMC) and d.
     (BMD) were measured in lumbar spine and hip by using dual-energy
    X-ray absorptiometry (DEXA) at baseline and after 2 yr. Findings The
    percentage change in lumbar spine BMD and BMC resp., did not
    differ from zero in the soy+ group (+1.1%, +2.0%) and TDP+ group
     (÷1.1%, +0.4%) but significant bone loss occurred
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in the control group (+4.2%, +4.3%) and the combined treatment group (+2.8%, +2.4%). No significant changes occurred for femoral neck BMD or BMC. Interpretation Daily intake of two glasses of soymilk containing 76 mg isoflavones prevents lumbar spine bone loss in postmenopausal women. Transdermal progesterone had bone-sparing effects but when combined with soy milk a neg. interaction between the two treatments occurs resulting in bone-loss to a greater extent than either treatment alone.

REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L11 ANSWER 2 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:640109 HCAPLUS

DOCUMENT NUMBER:

141:253360

TITLE:

Teriparatide: a review

AUTHOR(S):

Quattrocchi, Elaena; Kourlas, Helen

CORPORATE SOURCE:

Pharmacy Practice Department, Arnold and Marie

Schwartz College of Pharmacy and Health Sciences, Long

Island University, Brooklyn, NY, USA

SOURCE:

LANGUAGE:

Clinical Therapeutics (2004), 26(6), 841-854

CODEN: CLTHDG; ISSN: 0149-2918

PUBLISHER: DOCUMENT TYPE:

Excerpta Medica, Inc. Journal; General Review

English

A review. Background: Traditionally, the management of osteoporosis in AB men and women has included the use of antiresorptive agents in combination with calcium and vitamin D supplementation. The mechanism of action of teriparatide is unique in that it possesses anabolic properties and therefore builds bone. Since the approval of teriparatide in the United States in 2002, a great deal of interest regarding its use in osteoporosis has developed. Objectives: This article reviews the information available on the new recombinant human parathyroid hormone teriparatide (hPTH [1-34]), including its clin. pharmacol., mechanism of action, pharmacokinetic properties, clin. efficacy, safety profile, potential drug interactions, contraindications and warnings, dosage and administration, and pharmacoeconomics. Methods: The articles included in this review were identified through searches of PubMed and MEDLINE (1966-Dec. 2003) and International Pharmaceutical Abstrs. (1970-Dec. 2003). Search terms included teriparatide, Forteo, recombinant human parathyroid hormone (1-34), and osteoporosis. The refs. of the identified articles were reviewed for addnl. publications. Specific product information was also obtained from the manufacturer of teriparatide. Results: Teriparatide has been studied in postmenopausal women with osteoporosis, drug-induced osteoporosis (specifically, corticosteroid-induced osteoporosis), and men with osteoporosis. The data available from various clin. trials have shown an increase in both bone mineral d. (BMD) and bone mineral content (BMC) with the use of teriparatide compared with placebo. One study found that women treated with the 20-μg dose and the 40-μg dose were 35% and 40%, resp., less likely to have one or more new nonvertebral fractures compared with placebo (P = 0.02). Another study compared the use of daily teriparatide 40-μg injections vs. oral daily alendronate. Results showed that the incidence of nonvertebral fractures was significantly lower in the teriparatide group than the alendronate group (P < 0.05). A study using 20- and 40-μg daily injections of teriparatide was performed in men with osteoporosis. There was a statistically significant increase in lumbar spine BMD of 5.9% in the 20-µg group and 9.0% in the 40- μ g group (both, P < 0.001). In the femoral neck, a 1.5% increase in

BMD occurred in the 20- μg group (P = 0.021) and a 0.9% increase in the ullet 40- μ g group (P < 0.001). A limited number of studies are available assessing the combination of antiresorptive medications and teriparatide; however, the available data suggest that the effects of teriparatide do not require prior stimulation of bone resorption. Conclusions: Teriparatide has been shown clin. to improve BMD and BMC in postmenopausal women and in men. Because of its anabolic capabilities, teriparatide can be used as an alternative to the traditional therapies that are currently available for the treatment of osteoporosis, with scheduled monitoring for adverse effects such as hypercalcemia and urinary calcium excretion. In 1 study, mild hypercalcemia was seen most often 4 to 6 h after SC injection of teriparatide before returning to normal. Urinary, calcium was observed to increase by 30 mg/d (0.75 mmol/d) with teriparatide. REFERENCE COUNT: THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS 37 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

2004:453015 HCAPLUS

TITLE:

141:17632

Methods and agents elevating cAMP

and calcium ion for increasing neurogenesis

INVENTOR (S):

Bertilsson, Goran; Erlandsson, Rikard; Frisen, Jonas; Haegestrand, Anders; Heidrich, Jessica; Hellstrom, Kristina; Haggblad, Johan; Jansson, Katarina; Kortesmaa, Jarkko; Lindquist, Per; Lundh, Hanna; McGuire, Jacqueline; Mercer, Alex; Njberg, Karl; Ossoinak, Amina; Patrone, Cesare; Ronnholm, Harriet;

Zachrisson, Olof; Wikstrom, Lilian

PATENT ASSIGNEE(S):

SOURCE:

Neuronova AB, Swed. PCT Int. Appl., 77 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

disclosed.

PATENT NO.	KIND	DATE				
WO 2004045592 WO 2004045592	A3	20041104	WO 2003-IB5311			
W: AE, AG, AL, CN, CO, CR, GE, GH, GM, LK, LR, LS, NZ, OM, PG,	AM, AT, CU, CZ, HR, HU, LT, LU, PH, PL, TT, TZ,	AU, AZ, DE, DK, ID, IL, LV, MA, PT, RO,	BA, BB, BG, BR, BW, BY, DM, DZ, EC, EE, EG, ES, IN, IS, JP, KE, KG, KP, MD, MG, MK, MN, MW, MX, RU, SC, SD, SE, SG, SK, US, UZ, VC, VN, YU, ZA,	FI, GB, GD, KR, KZ, LC, MZ, NI, NO,		
RW: BW, GH, GM, BG, CH, CY, MC, NL, PT, GQ, GW, ML,	KE, LS, CZ, DE, RO, SE, MR, NE.	SI, SK,	SD, SL, SZ, TZ, UG, ZM, ES, FI, FR, GB, GR, HU, TR, BF, BJ, CF, CG, CI, TG	TE TO TIE		
AB The invention discle	oses met tissue lular ca	hods for with intr	US 2002-427912P promoting neurogenesis bracellular cAMP-elevating			
disclosed	Promoci	ng neurog	enesis are also			

L11 ANSWER 4 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

DOCUMENT NUMBER:

2004:414626 HCAPLUS

140:417976

TITLE:

Method of treating osteoporosis and other bone disorders with upfront loading of

bisphosphonates, and kits for such treatment

Wimalawansa, Sunil J.

PATENT ASSIGNEE(S):

SOURCE:

USA

U.S. Pat. Appl. Publ., 23 pp.

CODEN: USXXCO

DOCUMENT TYPE:

INVENTOR(S):

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IIC 2004007460				
US 2004097468 RITY APPLN. INFO.:	A1	20040520	US 2002-299975 US 2002-299975	20021120
			00 2002-2333/3	20021120

PRIOR Administering thereto-upfront loading of a bisphosphonate agent AB can be used to treat primary and secondary osteoporosis, other metabolic bone diseases, alleviation of bone pain, transplant and drug-induced bone loss, Paget's disease of bone, loosening of prosthesis, or metastatic bone diseases in mammals, preferably a human female or a male. A bisphosphonate drug can be administered as a loading dose upfront. Bisphosphonates can be administered by themselves or combined with, one or more other medications acting on bone, such as HRT, selective estrogen receptor modulating drug, calcitonin, parathyroid hormone, fluoride, androgen, sex-steroid hormone analogs, nitroglycerin growth factors and their analogs, peptides and proteins and their analogs, or any other novel therapeutic agents. This new regimen of administration of an anti-osteoporosis drug (e.g., a bisphosphonate) by itself, or in combination with other medications, can be used in mammals, preferably human (in women and men) for prevention and treatment of osteoporosis (e.g., postmenopausal, glucocorticoid- or drug-induced osteoporosis and osteoporosis in men, etc.) and other metabolic bone disorders, metastatic bone disease, transplant bone disease, Paget's disease, and prevention and treatment of loosening of prosthesis. Disclosed are methods for rapid inhibition of bone resorption in mammals while obtaining a rapid reduction of bone turnover and biomarkers, rapid increase of bone mineral d., and rapid reduction of fractures. Also disclosed are pharmaceutical compns. and kits for carrying out the therapeutic methods disclosed herein.

L11 ANSWER 5 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:412812 HCAPLUS

DOCUMENT NUMBER:

140:406808

TITLE:

Preparation of carbonylamino-benzimidazoles as

selective androgen receptor modulators

INVENTOR(S):

Kim, Yuntae; Spencer, Keith L.; Hanney, Barbara;

Duggan, Mark E.

PATENT ASSIGNEE(S): SOURCE:

Merck & Co., Inc., USA PCT Int. Appl., 136 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE: FAMILY ACC. NUM. COUNT: 1

English

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ~ - - ------

```
WO 2004041277

A1 20040521 WO 2003-US34345

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO:

WS 2002-422914P

P 20021101

OTHER SOURCE(S):

MARPAT 140:406808
```

Carbonylamino-benzimidazoles (shown as I; variables defined below; e.g. AB II) are modulators of the androgen receptor (AR) in a tissue selective manner. They are useful as agonists of the androgen receptor in bone and/or muscle tissue while antagonizing the AR in the prostate of a male patient or in the uterus of a female patient. These compds. are therefore useful in the enhancement of weakened muscle tone and the treatment of conditions caused by androgen deficiency or which can be ameliorated by androgen administration, including osteoporosis, osteopenia, glucocorticoid-induced osteoporosis, periodontal disease, bone fracture, bone damage following bone reconstructive surgery, sarcopenia, frailty, aging skin, male hypogonadism, postmenopausal symptoms in women, atherosclerosis, hypercholesterolemia, hyperlipidemia, obesity, aplastic anemia and other hematopoietic disorders, arthritic condition and joint repair, HIV-wasting, prostate cancer, cancer cachexia, Alzheimer's disease, muscular dystrophies, premature ovarian failure, and autoimmune disease, alone or in combination with other active agents. Although the methods of preparation are not claimed, 6 example prepns. and characterization data for .apprx.150 examples of I are included; nearly all examples contain the thiazol-4-yl group at the 2 position of the benzimidazole. For example, II was prepared from 3-fluorophenethylamine, 1,1'-carbonyldiimidazole and [2-(thiazol-4-yl)-3Hbenzimidazol-5-yl]amine, the latter of which was prepared from thiazole-4-carboxylic acid and (4-amino-3-nitrophenyl) carbamic acid tert-Bu ester (preparation described) via amide formation followed by cyclization in 20% aqueous AcOH. For I: R1 = aryl or heterocyclyl; R2 =

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-(C:O) NR5R6, -(C:O) a (C1-10) alkyl, -(C:O) a (C2-8) alkenyl,
     -- (C:0) a (C2-8) alkynyl, - (C:0) a (C3-10) cycloalkyl, - (C:0) a (C3-8) heterocyclyl,
      and -(C:0) aaryl; R3 = H, halogen, -(C:0) a0b(C1-10) alkyl,
      -(C:0) aOb(C2-8) alkenyl, -(C:0) aOb(C2-8) alkynyl, -(C:0) aOb(C3-
      10) cycloalkyl, -(C:0) aOb(C3-8) heterocyclyl, -(C:0) aObaryl, -(C:0) aNR5R6,
      -Ob(C:O)NR5R6, -NR5(C:O)aObRb, -NR5(C:O)NR5R6, -NR5S(O)2Rb, -(C:O)OH,
      trifluoromethoxy, trifluoroethoxy, -Ob(C1-10)perfluoroalkyl,
      -S(0)20b(C1-10)alkyl, -S(0)20b(C2-8)alkenyl, -S(0)20b(C2-8)alkynyl,
      -S(0)20b(C3-10)cycloalkyl, -S(0)20b(C3-8)heterocyclyl, -S(0)20baryl,
      -NR5S(O)2NR5R6, -CN, -NO2, oxo, and -OH; a = 0-1; b = 0-1; addnl. details
      are given in the claims.
 L11 ANSWER 6 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER:
                          2004:325938 HCAPLUS
 DOCUMENT NUMBER:
                          141:325890
 TITLE:
                          Transdermal hormone replacement
                          therapy improves vertebral bone density in
                          primary biliary cirrhosis: results of a 1-year
                          controlled trial
                          Pereira, S. P.; O'Donohue, J.; Moniz, C.; Phillips, M.
 AUTHOR(S):
                          G.; Abraha, H.; Buxton-Thomas, M.; Williams, R.
 CORPORATE SOURCE:
                          Institute of Liver Studies, King's College Hospital,
                          London, UK
 SOURCE:
                          Alimentary Pharmacology and Therapeutics (2004),
                          19(5), 563-570
                          CODEN: APTHEN; ISSN: 0269-2813
 PUBLISHER:
                          Blackwell Publishing Ltd.
 DOCUMENT TYPE:
                          Journal
 LANGUAGE:
                          English
     Background: Retrospective studies have suggested that hormone
     replacement therapy may reduce the rate of bone
     loss in primary biliary cirrhosis, but no controlled data are
     available. Methods: Forty-two post-menopausal women
     with primary biliary cirrhosis were treated with calcium and
     vitamin D, either alone (n = 21) or together with
     transdermal hormone replacement therapy (n =
     21). Bone densitometry was performed at baseline and
     at 1 yr, and serum and urinary markers of bone turnover were measured at
     three-monthly intervals. Results: At entry, 17 patients (40%)
     had spinal or femoral osteopenia (T score -1 to -2.5) and nine
     (21%) had osteoporosis (T < -2.5). In those given hormone
     replacement therapy, there was a significant decrease in
     the mean urinary deoxypyridinoline:creatinine ratios at 3 mo (7.8 vs. 6.1
     nM/mM creatinine for no hormone replacement
     therapy vs. hormone replacement
     therapy; P = 0.04) and a 48% reduction in urinary calcium
     excretion at 1 yr (0.66 vs. 0.32 nM/mM creatinine; P = 0.01). Repeat bone
     densitometry at 1 yr revealed a 2.25% increase in the hormone
     replacement therapy group (P = 0.02), compared with a
     non-significant 0.87% decrease in L2-L4 bone mineral d. in those not given
     hormone replacement therapy. Both treatment
     regimens were well tolerated, with no increase in cholestasis.
     Conclusions: Compared with calcium and vitamin
     D alone, supplemental treatment with transdermal hormone
     replacement therapy for 1 yr improved the vertebral bone
     d. and urinary markers of bone turnover in post-menopausal women
     with primary biliary cirrhosis.
REFERENCE COUNT:
                               THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS
                         46
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
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L11 ANSWER 7 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER:
                           2003:1009405 HCAPLUS
  DOCUMENT NUMBER:
                           140:140040
  TITLE:
                           Both hPTH(1-34) and bFGF
                          increase trabecular bone mass in osteopenic rats but
                           they have different effects on trabecular bone
                           architecture
 AUTHOR (S):
                          Lane, Nancy E.; Yao, Wei; Kinney, John H.; Modin,
                          Gunnard; Balooch, Mehdi; Wronski, Thomas J.
 CORPORATE SOURCE:
                          Department of Medicine, University of California at
                          San Francisco, San Francisco, CA, USA
 SOURCE:
                          Journal of Bone and Mineral Research (2003), 18(12),
                          2105-2115
                          CODEN: JBMREJ; ISSN: 0884-0431
 PUBLISHER:
                          American Society for Bone and Mineral Research
 DOCUMENT TYPE:
                          Journal
 LANGUAGE:
                          English
      Materials and Methods: Six-month-old female Sprague-Dawley rats
      (n = 74) were ovariectomized (OVX) or sham-operated (sham) and maintained
      untreated for 2 mo. Then OVX rats were s.c. injected with basic
      fibroblast factor (bFGF; 1 mg/kg, 5 days/wk), human
      parathyroid hormone [hPTH(1-
      34); 40 μg/kg, 5 days/wk], or vehicle for 60 days (days
      60-120). Sham-operated and one group of OVX animals were injected with
      vehicle. Biochem. markers of bone turnover (urinary deoxypyridinoline
      cross-links; Quidel Corp., San Diego, CA, USA) and serum
      osteocalcin (Biomedical Technologies, Stroughton, MA, USA) were obtained
      at study days 0, 60, 90, and 120 and analyzed by ELISA. At death, the
      right proximal tibial metaphysis was removed, and microcomputed tomog. was
     performed for trabecular bone structure and processed
      for histomorphometry to assess bone cell activity. The left proximal
     tibia was used for nanoindentation/mech. testing of individual trabeculae.
     The data were analyzed with Kruskal Wallis and post hoc testing as needed.
     Results: Ovariectomy at day 60 resulted in about a 50% loss of
     trabecular bone volume compared with sham-treated animals. By day
     120 post-OVX, OVX + vehicle treated animals had decreased trabecular bone
     volume, connectivity, number, and high bone turnover compared with
     sham-operated animals [p < 0.05 from sham-, hPTH(1-
     34) -, and bFGF-treated groups]. Treatment of OVX animals with
     bFGF and hPTH(1-34) both increased
     trabecular bone mass, but hPTH(1-34)
     increased trabecular thickness and bFGF increased trabecular number and
     connectivity. Histomorphometry revealed increased mineralizing surface
     and bone formation rate in both bFGF and hPTH
     (1-34) animals. However, osteoid volume was greater in
     bFGF-treated animals compared with both the hPTH(1-
     34) and OVX + vehicle animals (p < 0.05). Nanoindentation by atomic
     force microscope was performed on approx. 20 individual trabeculae per
     animal (three animals per group) and demonstrated that elastic modulus and
     hardness of the trabeculae in bFGF-treated animals were similar to that of
     the hPTH-treated and sham + vehicle-treated animals.
     Conclusion: Both hPTH(1-34) and bFGF are
     anabolic agents in the osteopenic female rat. However,
     hPTH(1-34) increases trabecular bone volume
     primarily by thickening existing trabeculae, whereas bFGF adds trabecular
     bone mass through increasing trabecular number and trabecular connectivity.
     These results suggest the possibility of sequential treatment paradigms
     for severe osteoporosis.
REFERENCE COUNT:
                        36
                               THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS
                              RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
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L11 ANSWER 8 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
  ACCESSION NUMBER:
                                    2003:1006711 HCAPLUS
  DOCUMENT NUMBER:
                                    140:53961
  TITLE:
                                    Analogs of parathyroid hormone and PTH-related protein
                                    as bone anabolic agents
  INVENTOR(S):
                                    Chorev, Michael; Rosenblatt, Michael
  PATENT ASSIGNEE(S):
                                    Beth Israel Deaconess Medical Center, Inc., USA
  SOURCE:
                                    PCT Int. Appl., 59 pp.
                                    CODEN: PIXXD2
  DOCUMENT TYPE:
                                    Patent
  LANGUAGE:
                                    English
  FAMILY ACC. NUM. COUNT:
  PATENT INFORMATION:
        PATENT NO. KIND DATE APPLICATION NO.

WO 2003105772 A2 20031224 WO 2003-US18890
WO 2003105772 A3 20040408
                                                                                           DATE
                                                            -----
                                                                                           20030613
             2003105772

A3 20040408

W: AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG APPLN. INFO:

US 2002-388918P

P 20020613
 PRIORITY APPLN. INFO.:
                                                            US 2002-388918P P 20020613
US 2002-398005P P 20020723
 OTHER SOURCE(S):
                                 MARPAT 140:53961
       The invention provides novel parathyroid hormone analogs and parathyroid
       hormones-related protein analogs. The invention also provides
       methods of using these analogs to treat osteoporosis, promote the
       formation of bone, and inhibit bone
       loss. The method of the invention can further comprise
       administering an addnl. pharmaceutical agent which is a bone
       resorption inhibitor or bone formation promoter.
       Pharmaceutical prepns. containing the compds. of the invention are further
       claimed.
L11 ANSWER 9 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                            2003:765982 HCAPLUS
 DOCUMENT NUMBER:
                                  139:316954
 TITLE:
                                 Evaluation of bone mineral density after renal
                                  transplantation under a tacrolimus-based
                                  immunosuppression: a pilot study
                                  Goffin, E.; Devogelaer, J.-P.; Depresseux, G.;
AUTHOR (S):
                                 Squifflet, J.-P.; Pirson, Y.; van Ypersele de Strihou,
                                  C.
CORPORATE SOURCE:
                                 Department of Nephrology, Hopital St. Luc, Universite
                                 Catholique de Louvain, Brussels, Belg.
SOURCE:
                                 Clinical Nephrology (2003), 59(3), 190-195
                                 CODEN: CLNHBI; ISSN: 0301-0430
PUBLISHER:
                                 Dustri-Verlag Dr. Karl Feistle
DOCUMENT TYPE:
                                 Journal
LANGUAGE:
                                 English
      Background: Progressive bone loss consistently
      complicates renal transplantation (TP) in patients given an
```

immunosuppression including prednisolone. The adjunction of cyclosporine in the immunosuppressive regimen does not reverse the neg. impact of renal TP on the skeleton. The post-transplant effect of tacrolimus on bone mass is still unknown. Methods: We evaluated the evolution of bone mineral d. (BMD) and various biochem. markers over the first 12 mo following renal TP in 23 patients given an immunosuppression combining tacrolimus and low-dose prednisolone. BMD of lumbar spine, total hip and hip subregions was measured by dual-energy x-ray absorptiometry within the first 15 days and 1 yr after TP. Results: At the time of TP, the average BMD was low in both the lumbar spine and the hip. After TP, a normalization of serum creatinine and a decrease in serum phosphate and iPTH levels occurs. Serum alkaline phosphatase level significantly rose transiently within the first 6 mo and decreased thereafter. At 1 yr post TP, BMD remained unchanged in the lumbar and in the trochanter subregions and rose in the other sites. BMD increased by at least 2% in 8, 13, 10 and 10 out of the 23 patients in the lumbar, neck, trochanter and total hip subregions, resp. No correlation was found between evolution in BMD and age, sex, dialysis duration, level of hyperparathyroidism, prednisolone and tacrolimus cumulative intake and prescription of calcium, vitamin D or hormone replacement therapy.

Conclusions: An immunosuppression combining tacrolimus and low-dose prednisolone might avoid the usual post-TP bone loss. Further randomized double-blind studies evaluating a larger cohort of patients should be undertaken to compare the effect of cyclosporine and tacrolimus on bone mass.

REFERENCE COUNT:

THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 10 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

28

ACCESSION NUMBER:

2003:477224 HCAPLUS

DOCUMENT NUMBER:

139:207969

TITLE:

Effect of hormone replacement therapy on bone quality in early

postmenopausal women

AUTHOR (S):

Paschalis, E. P.; Boskey, A. L.; Kassem, M.; Eriksen,

E. F.

CORPORATE SOURCE:

Mineralized Tissues Research Section, Hospital for

Special Surgery, New York, NY, USA

SOURCE:

Journal of Bone and Mineral Research (2003), 18(6),

955-959

CODEN: JBMREJ; ISSN: 0884-0431

PUBLISHER:

American Society for Bone and Mineral Research

DOCUMENT TYPE: Journal LANGUAGE: English

HRT is an effective prophylaxis against postmenopausal bone loss. IR imaging of paired iliac crest biopsies obtained at baseline and after 2 yr of HRT therapy demonstrate an effect on the mineral crystallinity and collagen crosslinks that may affect bone quality. Several studies have demonstrated that hormonal replacement therapy (HRT) is an effective prophylaxis against postmenopausal bone loss, although the

underlying mechanisms are still debated. IR spectroscopy has been used previously for analyzing bone mineral crystallinity and three-dimensional structures of collagen and other proteins. In the present study, the technique of Fourier transform IR microscopic imaging (FTIRI) was used to investigate the effect of estrogen on bone quality (arbitrarily defined as mineral/matrix ratio, mineral

crystallinity/maturity, and relative ratio of collagen crosslinks [pyridinoline/deH-DHLNL]) at the ultrastructural level, in mineralized,

thin tissue sections from double (before and after administration of HRT 'regimen; cyclic estrogen and progestogen [norethisterone acetate]) iliac crest biopsy specimens from 10 healthy, early postmenopausal women who were not on any medication with known influence on calcium metabolism FTIRI allows the anal. of undemineralized thin tissue sections (each image analyzes a 400 + 400 μ M2 area with a spatial resolution of .apprx.6.3 mm). For each bone quality variable considered, the after-treatment data exhibited an increase in the mean value, signifying definite changes in bone properties at the mol. level after HRT treatment. Furthermore, these findings are consistent with suppressed osteoclastic activity.

REFERENCE COUNT:

THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS 43 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 11 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:355828 HCAPLUS

DOCUMENT NUMBER:

138:363217

TITLE:

Uses of parathyroid hormone antagonists for the diagnosis and treatment of diseases associated with

bone mineral loss

INVENTOR (S):

Cantor, Thomas L.

PATENT ASSIGNEE(S): SOURCE:

USA

U.S. Pat. Appl. Publ., 29 pp., Cont.-in-part of U.S.

Ser. No. 928,047. CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2003087822 US 2002160945 PRIORITY APPLN. INFO.:	A1 A1	20030508	US 2002-215770 US 2001-928047 US 1999-323606 US 2000-224446P US 2000-224447P US 2000-636530 US 2001-928047	B2 P P A2	20020809 20010810 19990602 20000810 20000810 20000810

The present invention relates to parathyroid hormone (PTH) antagonists. AB More particularly, the present invention provides for pharmaceutical compns., kits and combinations comprising the PTH antagonist. The present invention also provides for methods for preventing, treating or delaying a disease or disorder associated with excessive bone mineral, e.g., calcium, loss or for preventing, treating or delaying the effect of a PTH agonist using the PTH antagonist. The present invention further provides for methods for identifying a subject having or at risk of having osteoporosis or decreased bone d., or for identifying a subject in need of PTH antagonist treatment, or for monitoring a subject undergoing treatment for osteoporosis or decreased bone d., by determining and/or monitoring PTH antagonist level or a comparative value between PTH agonist and PTH antagonist. The present invention further provides for methods for identifying an agent suitable for preventing, treating or delaying osteoporosis by identifying a compound that enhances the PTH antagonist activity.

L11 ANSWER 12 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:261603 HCAPLUS

DOCUMENT NUMBER:

138:281598

TITLE:

Androstane compounds as androgen receptor (AR)

modulators for the treatment of AR-related diseases INVENTOR(S): Wang, Jiabing PATENT ASSIGNEE(S): Merck & Co., Inc., USA SOURCE: PCT Int. Appl., 83 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	PATENT NO.				KIND 1		DATE				DATE					
WO .	20030	26568		A2 A3	-	2003	0403 0226			002-				2	 0020	 917
	W:	AE, ACCO, CHCCO,	G, AL, CU, R, HU, LV, D, RU, UZ, MD, KE, MD, RS, GB,	AM, CZ, ID, MA, SD, VC, LS, RU, GR,	AT, DE, IL, MD, SE, VN, MW, TJ, IE,	AU, DK, IN, MG, SG, YU, MZ, TM, IT,	AZ, DM, IS, MK, SI, ZA, SD, AT, LU,	BA, DZ, JP, MN, SK, ZM, SL, BE,	EC, KE, MW, SL, ZW SZ, BG, NL,	EE, KG, MX, TJ, TZ, CH, PT.	ES, KR, MZ, TM, UG, CY, SE.	FI, KZ, NO, TN, ZM, CZ,	GB, LC, NZ, TR, ZW, DE,	GD, LK, OM, TT,	GE, LR, PH, TZ,	GH, LS, PL, UA,
	R: # R: # 200423	AT, BE IE, SI 35808	CH, CH, LT,	A2 DE, LV, A1	DK, FI,	GQ, 2004 ES, RO, 2004:	GW, 0623 FR, MK, 1125	ML, GB, CY, I	MR, EP 20 GR, AL, US 20 JS 20	NE, 002-1 IT, TR, 004-4	SN, 76628 LI, BG, 18903	TD, 88 LU, CZ, 72	TG NL, EE,	20 SE,	00209 MC, 00403	917 PT, 308

Compds. of structural formula (I) as herein defined are claimed as useful AΒ in a method for modulating a function of the androgen receptor in a tissue selective manner in a patient in need of such modulation, as well as in a method of activating the function of the androgen receptor in a patient, and in particular the method wherein the function of the androgen receptor is blocked in the prostate of a male patient or in the uterus of a female patient and activated in bone and/or muscle tissue. These compds. are useful in the treatment of conditions caused by androgen deficiency or which can be ameliorated by androgen administration, including osteopenia, osteoporosis, periodontal disease, bone fracture, bone damage following bone reconstructive surgery, sarcopenia, frailty, aging skin, male hypogonadism, female sexual dysfunction, postmenopausal symptoms in women, atherosclerosis, hypercholesterolemia, hyperlipidemia, aplastic anemia and other hematopoietic disorders, pancreatic cancer, renal cancer, prostate cancer, inflammatory arthritis and joint repair, alone or in combination with other active agents. Methods for the co-administration of those compds. with bone-strengthening agents are also claimed.

L11 ANSWER 13 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:136354 HCAPLUS

DOCUMENT NUMBER:

139:224064

TITLE:

Teriparatide has no effect on the calcium -mediated pharmacodynamics of digoxin

AUTHOR (S):

Benson, Charles T.; Voelker, James R.

CORPORATE SOURCE:

Lilly Laboratories for Clinical Research,

Indianapolis, IN, USA

SOURCE:

Clinical Pharmacology & Therapeutics (St. Louis, MO,

United States) (2003), 73(1), 87-94 CODEN: CLPTAT; ISSN: 0009-9236

PUBLISHER: DOCUMENT TYPE:

Journal

LANGUAGE:

English

Background: Teriparatide (recombinant human parathyroid hormone [1-34]) stimulates bone

Mosby, Inc.

formation and causes small transient increases in serum calcium concentration We assessed whether teriparatide causes a change in digoxin pharmacodynamic effects by measuring systolic time intervals and heart rate. Methods: Measurements were made by echocardiog. Doppler that examined 3 systolic time intervals, as follows: QS2 (time from Q wave on ECG to the closure of the aortic valve), left ventricular ejection time, and pre-ejection period, all corrected for changes in heart rate. Fifteen healthy subjects (2 men and 13 women) were administered a single s.c. teriparatide dose (20 μg) on day 1 and then equilibrated on a daily oral dose of digoxin for 15 days. S.C. placebo and teriparatide, 20 μg, were given in a randomized crossover design with the 14th (day 15) and 15th (day 16) digoxin doses. Serial systolic time interval and heart rate measurements were obtained on days 1, 15, and 16. Results: After subjects were dosed to steady state with digoxin, there were statistically significant redns. in QS2 corrected for heart rate (QS2c) of 23 to 25 ms and heart rate of 4 to 6 beats/min. However, there was no difference between treatment with digoxin plus placebo vs. digoxin plus teriparatide. The study was powered to find a difference in QS2c as small as 6 ms (α =.05, β =.2). Conclusion: Teriparatide, 20 μg

s.c., does not alter the cardiac effect of digoxin.

REFERENCE COUNT: THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS 35 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 14 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:108584 HCAPLUS

DOCUMENT NUMBER:

138:297868

TITLE:

Percutaneous estrogen in prevention of early

postmenopausal bone loss

in Chinese women

AUTHOR (S):

Sun, Aijun; Lin, Shouqing; Yu, Wei; Qin, Mingwei; Chen, Fengling; Zhang, Ying; Wei, Yang; de Lignieres,

Bruno

CORPORATE SOURCE:

Department of Obstetrics + Gynecology, Peking Union Medical College Hospital, Beijing, 100730, Peop. Rep.

China

SOURCE:

Chinese Medical Journal (Beijing, China, English

Edition) (2002), 115(12), 1790-1795

CODEN: CMJODS; ISSN: 0366-6999

PUBLISHER:

Chinese Medical Association

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Objective: To identify the optimal dosage of 17β -estradiol gel + oral progestin for preventing bone loss in

postmenopausal Chinese women. Methods: A 3-yr open label, randomized, prospective clin. trial was conducted. Sixty healthy women who had been postmenopausal for 1 to 5 yr were recruited and divided into following 4 groups: group 1, percutaneous gel 17β -estradiol (E2) 1.5 mg/d plus micronized progesterone (MP) 100 mg/d; group 2, percutaneous gel 17 β -estradiol (E2) 1.5 mg/d plus medroxyprogesterone acetate (MPA) 2 mg/d; group 3, percutaneous gel 17β -estradiol (E2) 0.75 mg/d plus micronized progesterone (MP) 100 mg/d; and group 4, percutaneous gel 17β -estradiol (E2) 0.75 mg/d plus medroxyprogesterone acetate (MPA) 2 mg/d. Estrogen and progestin were given continuously for 25 days per mo. Bone mineral d. (BMD) was measured using quant. computed tomog. (QCT) for trabecular bone of L2-5 and dual energy x-ray absorptiometry (DEXA) for L2-4 and hip at baseline and at 6, 12, 18, 24 and 36 mo visits. Results:98.3% patients stayed in the study for 1 yr, 93.3% for 2 yr, and 85% for 3 yr. On average, 80% of patients showed relieved menopausal symptoms after 6 mo of treatment. By the 24th month, the mean increase in BMD ranged from 4.3% to 7.5% in trabecular bone; and by the 36th month, it ranged from 4.2% to 6.2% in L2-4 and 1.61% to 3.77% in the neck. There were significant difference after treatment (P < 0.05). Among the four groups, no significant difference (P > 0.05) was found in improvement of symptoms, levels of bone markers or BMD. Conclusion: A daily dose of estradiol gel, either 0.75 mg or 1.5 mg, is effective in preventing early

postmenopausal bone loss and relieving

menopausal symptoms. After 3-yr treatment, spinal BMD

could increase steadily, so does hip BMD, especially in the first 2 yr. REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 15 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:927553 HCAPLUS

DOCUMENT NUMBER:

138:13510

TITLE:

CDR-grafted anti-human p40 antibodies for

diagnosis and treatment of conditions mediated by

interleukin 12

INVENTOR (S):

Peritt, David; Carton, Jill M.

PATENT ASSIGNEE(S):

Centocor, Inc., USA

SOURCE:

PCT Int. Appl., 87 pp.

CODEN: PIXXD2 Patent

DOCUMENT TYPE:

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
WO 2002097048 WO 2002097048	A2 A3	20021205 20030904	WO 2002-US16876	20020528			
W: AE, AG, AL,	AM, AT		, BB, BG, BR, BY, BZ,	CA, CH, CN,			

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CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
             RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
             VN, YU, ZA, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG,
            KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR,
             IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
             GQ, GW, ML, MR, NE, SN, TD, TG
     US 2003157105
                         A1
                                20030821
                                            US 2002-156255
                                                                   20020528
PRIORITY APPLN. INFO.:
                                            US 2001-294503P
                                                                P 20010530
    The present invention relates to at least one novel anti-p40 or
    human IL-12 Ig-derived protein, including isolated nucleic acids
    that encode at least one anti-p40 Ig derived protein, IL-12, vectors, host
    cells, transgenic animals or plants, and methods of making and
    using thereof, including therapeutic compns., methods and
    devices. The humanized anti-p40 antibodies and fragments are
    useful for treating IL-12-mediated diseases.
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L11 ANSWER 16 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:907166 HCAPLUS

DOCUMENT NUMBER:

138:322

TITLE:

Plasma glucosylceramide deficiency as risk factor for thrombosis and modulator of anticoagulant protein C Griffin, John H.; Deguchi, Hiroshi; Fernandez, Jose

INVENTOR(S): PATENT ASSIGNEE(S):

SOURCE:

U.S. Pat. Appl. Publ., 32 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA7	CENT	NO.			KIN		DATE								D	ATE		
	2002 6756				A 1		2002	1128 0629			002-				2	0020	228	
WO	2002 2002	1023	25		A2		2002	1227		WO 2	002-	US63	40		2	0020	228	
	W:	AE, CO, GM, LS, PL, UA, GH, KG,	AG, CR, HR, LT, PT, UG, GM, KZ,	AL, CU, HU, LU, RO, UZ, KE, MD,	AM, CZ, ID, LV, RU, VN, LS, RU,	AT, DE, IL, MA, SD, YU, MW, TJ,	AU, DK, IN, MD, SE, ZA, MZ, TM, NL,	AZ, DM, IS, MG, SG, ZM, SD, AT,	BA, DZ, JP, MK, SI, ZW SL, BE,	EC, KE, MN, SK, CH,	EE, KG, MW, SL, TZ, CY,	ES, KP, MX, TJ, UG, DE,	FI, KR, MZ, TM, ZM, DK,	GB, KZ, NO, TN, ZW, ES,	GD, LC, NZ, TR,	GE, LK, OM, TT, AZ, FR.	GH, LR, PH, TZ, BY, GB.	
EP	1370 R:	GN, 570 AT,	GQ, BE,	GW,	ML, A2 DE,	MR, DK,	NE, 2003: ES, RO,	SN, 1217 FR,	TD, GB,	TG EP 20 GR,	002-' IT,	76099	92		20	0020:	228	
US PRIORITY	2004 APP	13268	38		A1	- :	20040	708	ī Ţ	JS 20 JS 20	003-1 001-2	27210)3P	I	2 (00312 00102	228	
AB The	US 2001-278045P P 20010322 US 2002-86943 A3 20020228 WO 2002-US6340 W 20020228 AB The present invention has determined that every results all the present invention has determined that every results all the present invention has determined that every results all the present invention has determined that every results all the present invention has determined that every results all the present invention has determined that every results all the present invention has determined that every results all the present inventions and the present invention has determined that every results all the present inventions and the present invention has determined that every results all the present inventions and the present inventions are all the present inventions and the present inventions are all the present inventions and the present inventions are all the present inventions and the present inventions are all the present inventions and the present inventions are all the present inventions and the present inventions are all the present inventions are all the present inventions and the present inventions are all th																	

The present invention has determined that exogenously added glucosylceramide AB (GlcCer) and other neutral glycolipids such as the homologous Glc-containing globotriaosylceramide (Gb3Cer), dose-dependently prolonged clotting times

of normal plasma in the presence but not absence of APC:protein S, indicating GlcCer or Gb3Cer can enhance protein C pathway anticoagulant activity. In studies using purified proteins, inactivation of factor Va by APC:protein S was enhanced by GlcCer alone and by GlcCer, globotriaosylceramide, lactosylceramide, and galactosylceramide in multicomponent vesicles containing phosphatidylserine and phosphatidylcholine. Thus, the present invention provides neutral glycolipids such as GlcCer and Gb3Cer, as anticoagulant cofactors that contribute to the antithrombotic activity of the protein C pathway. The present invention has also determined that a deficiency of plasma GlcCer is a risk factor for thrombosis. Methods are provided to determine individuals at risk for thrombosis, methods of treatment as well as methods of screening for antithrombotic factors from neutral glycolipids.

REFERENCE COUNT: THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS 15 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 17 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:721211 HCAPLUS

DOCUMENT NUMBER:

137:272687

TITLE:

Summary of meta-analyses of therapies for

postmenopausal osteoporosis

AUTHOR (S):

Cranney, Ann; Guyatt, Gordon; Griffith, Lauren; Wells,

George; Tugwell, Peter; Rosen, Clifford

CORPORATE SOURCE:

The Osteoporosis Methodology Group, USA; The

Osteoporosis Research Advisory Group

SOURCE:

Endocrine Reviews (2002), 23(4), 570-578 CODEN: ERVIDP; ISSN: 0163-769X

PUBLISHER:

Endocrine Society

DOCUMENT TYPE: LANGUAGE:

Journal; General Review

English

A review. This section summarizes the results of the seven systematic reviews of osteoporosis therapies published in this series [calcium, vitamin D, hormone replacement therapy (HRT), alendronate, risedronate, raloxifene, and calcitonin] and systematic reviews of etidronate and fluoride we have published elsewhere. We highlight the methodol . strengths and weaknesses of the individual studies, and summarize the effects of treatments on the risk of vertebral and non-vertebral fractures and on bone d., including effects in different patient subgroups. We provide an estimate of the expected impact of antiosteoporosis interventions in prevention and treatment populations using the number needed to treat (NNT) as a reference In addition to the

evidence, judgements about the relative weight that one places on weaker and stronger evidence, attitudes toward uncertainty, circumstances of patients ' and societal values or preferences will, and should, play an important

role in decision-making regarding anti-osteoporosis therapy.

REFERENCE COUNT:

THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS 37 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 18 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:721194 HCAPLUS

DOCUMENT NUMBER:

137:273351

TITLE:

Meta-analysis of the efficacy of hormone replacement therapy in treating and

preventing osteoporosis in postmenopausal

women

AUTHOR (S):

Wells, George; Tugwell, Peter; Shea, Beverley; Guyatt, Gordon; Peterson, Joan; Zytaruk, Nicole; Robinson, Vivian; Henry, David; O'Connell, Diane; Cranney, Ann

CORPORATE SOURCE:

The Osteoporosis Methodology Group, USA; The

Osteoporosis Research Advisory Group

SOURCE:

Endocrine Reviews (2002), 23(4), 529-539

CODEN: ERVIDP; ISSN: 0163-769X

PUBLISHER:

Endocrine Society

DOCUMENT TYPE:

Journal English

LANGUAGE:

Objective: To review the effect of hormone replacement

therapy (HRT) on bone d. and fractures in

postmenopausal women. Data Source: We searched MEDLINE and EMBASE from 1966 to 1999, the Cochrane Controlled Register, citations of relevant articles, and proceedings of international meetings for eligible randomized controlled trials. We contacted osteoporosis investigators to identify addnl. studies, and primary authors for unpublished data. Study Selection: We included 57 studies that randomized postmenopausal women to HRT or a control (placebo or calcium/vitamin D) and were of at least 1 yr in duration. Seven of these studies reported fractures. Data Abstraction: For each study, three independent reviewers assessed the methodol. quality and abstracted the data. Data Synthesis: HRT showed a trend toward reduced incidence of vertebral fractures [relative risk (RR) 0.66, 95% confidence interval (CI) 0.41-1.07; 5 trials] and nonvertebral fractures (RR 0.87, 95% CI 0.71-1.08; 6 trials). HRT had a consistent effect on bone mineral d. (BMD) at all sites. The difference between HRT and control in the percent change in bone d. at 2 yr was 6.76 (5.83, 7.89; 21 trials) at the lumbar spine and 4.53 (3.68, 5.36; 14 trials) and 4.12 (3.45, 4.80; 9 trials) at the forearm and femoral neck, resp. Conclusions: HRT has a consistent, favorable and large effect on bone d. at all sites. show a nonsignificant trend toward a reduced incidence in vertebral and nonvertebral fractures.

REFERENCE COUNT:

THERE ARE 90 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 19 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

90

ACCESSION NUMBER:

2001:731079 HCAPLUS

DOCUMENT NUMBER:

135:286908

TITLE:

Use of androgen receptor gene GGC and CAG repeat

polymorphisms for determining osteoporosis susceptibility and/or low bone density

INVENTOR(S):

Rousseau, Francois Signalgene Inc., Can.

PATENT ASSIGNEE(S): SOURCE:

PCT Int. Appl., 67 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.		KIN	ID DATE			APPLICATION NO.						DATE					
				-													
WO 2001073116		A2		20011004			WO 2001-CA402						20010328				
WO 2001073116			A3 20021212														
W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
									EE,								
									KG,								
									MW,								
									TM,								
									ΚZ,						•		
RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,	
	DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	TR.	BF,	

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BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                          US 2000-192557P P 20000328
    The present invention relates to a method for determining osteoporosis
    susceptibility by using genotypes of the androgen receptor gene. More
    specifically, the present invention relates to two distinct polymorphisms
    at the AR gene, namely, the CAG repeat coding for a polyglutamine tract
    and the GGC repeat coding for a polyglycine tract in the 5'part (exon 1)
    of the AR gene and to a linkage disequil. therebetween which can be
    correlated with a predisposition to osteoporosis and/or low bone d. and/or
    high/low bone turnover and/or protection to osteoporosis. The invention
    further relates to kits for assessing such predispositions and/or
    protection. As well, the invention relates to osteoporosis susceptibility
    or to low bone mass, to responsiveness to treatment for osteoporosis, for
    osteoporosis prognosis or severity, or as a means to classify
    patients in clin. trial for osteoporosis (screening, diagnosis,
    prognosis or treatment). In addition, the invention relates to assays for
    screening drugs for osteoporosis or for determining the best treatment for
    osteoporosis.
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L11 ANSWER 20 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:229143 HCAPLUS

DOCUMENT NUMBER:

134:232284

TITLE:

Method for monitoring treatment with a

parathyroid hormone

INVENTOR(S):

Hock, Janet M.; Satterwhite, Julie

PATENT ASSIGNEE(S): SOURCE:

Eli Lilly and Company, USA PCT Int. Appl., 135 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO.
                                                                     APPLICATION NO.
                                      KIND
                                                   DATE
                                                                                                           DATE
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                                                   -----
                                                                       -----
        WO 2001022093
                                        A1
                                                   20010329
                                                                     WO 2000-US24745
                                                                                                            20000911
              W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
                    MD, RU, TJ, TM
              RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
       CA 2387693
                                                                  CA 2000-2387693
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       EP 1222465
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              R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL
PRIORITY APPLN. INFO.:
                                                                       US 1999-154879P
                                                                                                    P 19990920
                                                                                                    P 19990930
                                                                       US 1999-156803P
                                                                       US 2000-196370P
                                                                                                      P 20000412
                                                                      WO 2000-US24745
                                                                                                      W 20000911
       The present invention relates to a method for monitoring effects
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AΒ of administration of a parathyroid hormone by determining levels of one or more markers of an activity of this hormone. Suitable markers of bone formation include one or more enzymes indicative of osteoblastic processes of bone formation, preferably bone specific alkaline phosphatase, and/or one or more products of collagen

biosynthesis, preferably a procollagen I C-terminal propeptide. Suitable markers of bone resorption and turnover include one or more products of collagen degradation, preferably an N-terminal telopeptide (NTX). In addition, methods for concurrently reducing the risk of both vertebral and non-vertebral bone fracture in a male human subject at risk of or having osteoporosis are also disclosed, involving administration of human parathyroid hormone (amino acid sequence 1-34) without concurrent administration of an antiresorptive. agent other than vitamin D or calcium. A kit for monitoring an effect of administration of parathyroid hormone to subject is claimed, as is an article of manufacture comprising packaging material and a pharmaceutical composition comprising human PTH (1-34) is also claimed.

REFERENCE COUNT:

8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 21 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:159622 HCAPLUS

DOCUMENT NUMBER:

132:175253

TITLE: AUTHOR(S):

Management of corticosteroid-induced osteoporosis Adachi, Jonathan D.; Olszynski, Wojciech P.; Hanley, David A.; Hodsman, Anthony B.; Kendler, David L.; Siminoski, Kerry G.; Brown, Jacques; Cowden, Elizabeth A.; Goltzman, David; Loannidis, George; Josse, Robert G.; Ste-Marie, Louis-Georges; Tenenhouse, Alan M.; Davison, K. Shawn; Blocka, Ken L. N.; Pollock, A. Patrice; Sibley, John

CORPORATE SOURCE:

Department of Medicine, St. Joseph's Hospital, McMaster

University, Hamilton, ON, Can.

SOURCE:

Seminars in Arthritis and Rheumatism (2000), 29(4),

228-251

CODEN: SAHRBF; ISSN: 0049-0172

PUBLISHER: DOCUMENT TYPE: W. B. Saunders Co. Journal; General Review

LANGUAGE: English

A review with 146 refs. The aim of this study was to educate scientists and health care providers about the effects of corticosteroids on bone, and advise clinicians of the appropriate treatments for patients receiving corticosteroids. This review summarizes the pathophysiol. of corticosteroid-induced osteoporosis, describes the assessment methods used to evaluate this condition, examines the results of clin. trials of drugs, and explores a practical approach to the management of corticosteroid-induced osteoporosis based on data collected from published articles. Despite our lack of understanding about the biol. mechanisms leading to corticosteroid-induced bone loss , effective therapy has been developed. Bisphosphonate therapy is beneficial in both the prevention and treatment of corticosteroid-induced osteoporosis. The data for the bisphosphonates are more compelling than for any other agent. For patients who have been treated but continue to lose bone, hormone replacement therapy, calcitonin, fluoride, or anabolic hormones should be considered. Calcium should be used only as an adjunctive therapy in the treatment or prevention of corticosteroid-induced bone loss and should be administered in combination with other agents. Bisphosphonates have shown significant treatment benefit and are the agents of choice for both the treatment and prevention of corticosteroid-induced osteoporosis. REFERENCE COUNT: THERE ARE 146 CITED REFERENCES AVAILABLE FOR 146

THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L11 ANSWER 22 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:144758 HCAPLUS

DOCUMENT NUMBER:

132:161692

TITLE:

Method of increasing bone toughness and

stiffness and reducing fractures by administering a

parathyroid hormone

INVENTOR (S):

Hock, Janet M.

PATENT ASSIGNEE(S): SOURCE:

Eli Lilly and Company, USA

PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

WO 2000010596 A1 20000302 WO 1999-US18961 19990819 W: AE, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG CA 2325371 AA 20000302 CA 1999-2325371 19990819 AU 9955750 A1 20000314 AU 1999-55750 19990819 AU 746277 B2 20020418 BR 9909445 A 20001212 BR 1999-9445 19990819 EP 1059933 A1 20001220 EP 1999-942350 19990819 EP 1059933 B1 20030115 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO TR 200003455 T2 20010621 TR 2000-200003455 19990819 EP 1136076 A1 20010926 EP 2001-202735 19990819 EP 1136076 A1 20010926 EP 2001-202735 19990819 EP 1136076 A1 20010926 EP 2001-202735 19990819 ER: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO JP 2002523375 T2 20020730 JP 2000-565916 19990819	PATENT	NO.	KIND	DATE	APPLICATION NO.	DATE
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HK 1030545 A1 20030711 HK 2001-101056 20010214	HK 10305	45	A 1	20030711	HK 2001-101056	20010214
HR 200000755 A1 20010228 HR 2000-755 20001106 NO 200005947 A 20001124 NO 2000-5947 20001124 HK 1030545 A1 20030711 HK 2001-101056 20010214 PRIORITY APPLN. INFO.: US 1998-97151P P 19980819	PRIORITY APPL	N. INFO.:			US 1998-97151P	P 19980819
US 1998-99746P P 19980910					US 1998-99746P	P 19980910
EP 1999-942350 A3 19990819					EP 1999-942350	
WO 1999-US18961 W 19990819 AB The invention relates to a method for ingregating the touchests	AD The inve	med			WO 1999-US18961	W 19990819

and/or stiffness of bone and/or reducing the likelihood and/or severity of bone fracture by administering a parathyroid hormone. The method can be employed to increase toughness or stiffness of bone at a site of a potential or actual trauma, such as the hip or spine of a person at risk of or suffering from osteoporosis. method of the invention can reduce the incidence of vertebral fracture, reduce the incidence of multiple vertebral fractures, reduce the severity of vertebral fracture, and/or reduce the incidence of non-vertebral fracture.

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 23 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:46743 HCAPLUS

DOCUMENT NUMBER:

132:88752

TITLE:

Osteopenia in young hypogonadal women with

systemic lupus erythematosus receiving chronic steroid

therapy: a randomized controlled trial comparing

calcitriol and hormonal replacement therapy

AUTHOR (S): Kung, A. W. C.; Chan, T. M.; Lau, C. S.; Wong, R. W.

S.; Yeung, S. S. C.

CORPORATE SOURCE:

Department of Medicine, Queen Mary Hospital, The University of Hong Kong, Hong Kong, Peop. Rep. China

Rheumatology (Oxford) (1999), 38(12), 1239-1244

CODEN: RUMAFK; ISSN: 1462-0324

PUBLISHER:

SOURCE:

Oxford University Press

DOCUMENT TYPE:

Journal LANGUAGE: English

Objective. To evaluate the efficacy of calcitriol and hormonal replacement therapy (HRT) in the treatment of steroid-induced osteoporosis in hypogonadal women. Methods. We studied 28 young patients (aged 37 ± 6 yr) with systemic lupus erythematosus (SLE) on chronic steroid therapy for 130 ± 22 mo and requiring more than 10 mg/day prednisone. They were amenorrhoeic for more than 2 yr with proven ovarian failure. All had osteopenia with a T score at L2-4 of less than -1. They were randomized to receive HRT (conjugated estrogen 0.625 mg daily from day 1 to day 21 plus medroxyprogesterone acetate 5 mg daily days 10-21) or calcitriol 0.5 μg daily. All received calcium carbonate 1 g/day. Results. There were no differences in the baseline demog., bone mineral d. (BMD) and biochem. data between the two groups. Lumbar spine BMD increased by $2.0\pm0.4\%$ after 2 yr with HRT (P < 0.05), but reduced by $1.74\pm0.4\%$ (P < 0.05) with calcitriol treatment. No change was seen at the distal one-third radius with HRT treatment but significant bone loss (2.3±1.4%, P < 0.02) was observed with calcitriol therapy. BMD at the hip did not change in both groups. Comparing both treatment groups, significant differences in the BMD at the spine (P < 0.03) and radius (P < 0.05) were seen at the end of $^{-}$ 2 yr. The changes in urinary n-telopeptide excretion but not serum osteocalcin at 6 mo and 12 mo were inversely correlated with the changes in lumbar spine BMD at 24 mo. HRT did not cause an adverse effect on SLE disease activity. Conclusion. HRT but not calcitriol could prevent bone loss in young hypogonadal women on chronic steroid therapy.

REFERENCE COUNT:

30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 24 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:520424 HCAPLUS

DOCUMENT NUMBER:

131:165442

TITLE:

Transdermal progesterone cream for vasomotor symptoms

and postmenopausal bone

AUTHOR (S):

CORPORATE SOURCE:

Leonetti, Helene B.; Longo, Santo; Anasti, James N. Departments of Obstetric and Gynecology and Pathology,

St. Luke's Hospital, Bethlehem, PA, USA

SOURCE:

Obstetrics & Gynecology (New York) (1999), 94(2),

225-228

CODEN: OBGNAS; ISSN: 0029-7844

PUBLISHER: Elsevier Science Inc.

DOCUMENT TYPE:

Journal English

LANGUAGE:

Objective: To determine effectiveness of transdermal progesterone cream for controlling vasomotor symptoms and preventing postmenopausal

bone loss. Methods: We randomly assigned 102 healthy women within 5 yr of menopause to transdermal

progesterone cream or placebo. Study subjects and investigators were masked until data anal. was completed. An initial evaluation included

complete history, phys. examination, bone mineral d. determination, and serum studies

(TSH, FSH, lipid profile, and chemical profile). Subjects were instructed to apply a quarter tsp of cream (containing 20 mg progesterone or placebo) to the skin daily. Each woman received daily multivitamins and 1200 mg of calcium and were seen every 4 mo for review of symptoms. Bone scans and serum chemistries were repeated after 1 yr. Results: Thirty of the 43 (69%) in the treatment group and 26 of the 47 (55%) in the placebo group complained initially of vasomotor symptoms. Improvement or resolution of vasomotor symptoms, as determined by review of weekly symptom diaries, was noted in 25 of 30 (83%) treatment subjects and five of 26 (19%) placebo subjects (P <.001). However, the number of women who showed gain in bone mineral d. exceeding 1.2% did not differ (α =.05, power of $80\frac{1}{8}$). Conclusion: Although we found no protective effect on bone d. after 1 yr, we did see a significant improvement in vasomotor symptoms in the treated group.

REFERENCE COUNT:

15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 25 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:129471 HCAPLUS

DOCUMENT NUMBER:

130:295053

TITLE:

Urinary bone resorption markers in monitoring

treatment of symptomatic osteoporosis

AUTHOR (S):

CORPORATE SOURCE:

Parviainen, Markku T.; Jaaskelainen, Kalle; Kroger, Heikki; Arnala, Ilkka; Alhava, Esko Department of Clinical Chemistry, Kuopio University

Hospital, Kuopio, FIN-70210, Finland

SOURCE:

Clinica Chimica Acta (1999), 279(1-2), 145-154

CODEN: CCATAR; ISSN: 0009-8981 Elsevier Science Ireland Ltd.

DOCUMENT TYPE:

PUBLISHER:

Journal

LANGUAGE:

English

The authors have studied the clin. usefulness of urinary bone resorption markers in postmenopausal women with symptomatic osteoporosis. The study design is a randomized double-blind placebo controlled study, in which the subjects were daily treated for 24 mo either with a hormone analog (2.5 mg Livial, generic name Tibolone, Organon, Amsterdam, Holland) plus 800 mg calcium (age 63 yr, range 52-68 yr), or with placebo plus 800 mg calcium (age 66 yr, range 50-75 yr). The laboratory methods for urinary bone resorption markers were enzyme immunoassays (EIA) for urinary pyridoline (PYD) and

deoxypyridoline crosslinks (DPD), and for cross-linked N-telopeptides of type I Collagen (NTx), and an HPLC assay for urinary hydroxyproline (HOP). All the urine assay results were calculated per mmol creatinine. All the resorption markers decreased during the two-year study period in both groups. The Z scores (discriminating power, i.e., ability of the different tests to distinguish the hormone treated subjects from the placebo treated subjects) for HOP and PYD were rather low: 0.06-1.52 for HOP and 0.68-1.47 for PYD. The differences between the two treatment groups were statistically significant for DPD at 12 and 24 mo of treatment, the Z scores ranging 0.45-1.90. NTx showed the most prominent decrease from the beginning of the study especially in the hormone treatment group: the differences between the two treatment groups were highly statistically significant for NTx already at 6 mo of treatment, and the Z scores remained high ranging 2.11-3.82 throughout the two-year study period. Dual x-ray absorptiometry (DXA) of the lumbar spine and femoral neck did not show differences between the two treatment groups throughout the two-year study period. After 2 yr, there was, however, a significant increase in bone d. both in the spine (+ 6.6%) and in the femoral neck (+ 3.4%) in the women with hormone treatment. control group a significant increase (+ 5.1%) in the spine, whereas a non-significant decrease in the femoral neck was observed Thus, measurement of urinary cross-linked peptides derived from type I collagen (NTx and DPD) might be a useful biochem. method of observing the pos. clin. effect, i.e., reduction in bone resorption, following hormone replacement therapy in

postmenopausal fracture patients.

REFERENCE COUNT:

THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 26 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1998:764297 HCAPLUS

DOCUMENT NUMBER:

130:25345

TITLE:

Preparation of cyclic peptide parathyroid hormone

analogs

INVENTOR(S):

Condon, Stephen M.; Morize, Isabelle

PATENT ASSIGNEE(S):

Rhone-Poulenc Rorer Pharmaceuticals Inc., USA

SOURCE:

PCT Int. Appl., 188 pp. CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.		KIN	D DATE	APP	LICAT	DATE											
WO	VO 9851324		A1	1998	WO	WO 1998-US9843						19980513					
	W:	AL,	AM,	AU,	BA,	BB, BR,	CA,	CH, CU	, CZ,	EE,	ES,	FI,	GB,	GH,	HU,		
		IL,	IS,	ΚP,	LC,	LK, LR,	LT,	LU, MG	, MK,	MX,	NO,	PT,	RO,	RU,	SD,		
		SI,	SK,	TT,	UA,	US, VN,	AM,	AZ, TJ	TM			•	•	•			
	RW:	GH,	GM,	KΕ,	LS,	MW, SZ,	UG,	BE, CY	DE,	DK,	ES,	FI,	FR,	GB,	GR,		
		ΙE,	IT,	LU,	MC,	NL, PT,	SE,	BF, CI	GA,	MR,	SN,	TD,	TG				
CA 2290443		AA	1998	1119	CA	1998-	2290	443	•	19	9980	513					
ΑU	9873	867			A1	1998	1208	AU :	1998-	7386	 7		1.9	9980	513		
ΑŲ	7464	61			B2	2002	0502										
ΕP	9863	95			A1	2000	0322	EP :	1998-	9212	00		19	980	513		
	R:	ΑT,	BE,	CH,	DE,	DK, ES,	FR,	GB, GR	IT,	LI,	LU.	NL.	SE.	MC.	PT.		
		IE,	SI,	FI,	RO				•	•	,	,	,	,	,		
BR	9808	786			Α	2000	0711	BR :	1998-	8786			19980513				
JP	2001	5179!	57		T2	2001	1009	JP :						99809			
ZA	9804	077			Α	1998		ZA :						9809			

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US 6472505
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                                20021029
                                            US 1999-228990
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    NO 9905568
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                                19991229
                                           NO 1999-5568
                                                                   19991112
                         A1
     US 2002132973
                                20020919
                                            US 2002-97079
                                                                   20020313
PRIORITY APPLN. INFO.:
                                            US 1997-46472P
                                                              P 19970514
                                                               W 19980513
                                            WO 1998-US9843
                                                               A3 19990112
                                            US 1999-228990
OTHER SOURCE(S):
                         MARPAT 130:25345
     This invention is directed to cyclic and acyclic analogs of human
     parathyroid hormone (1-34) [
     hPTH(1-34)] and human
     parathyroid hormone-related protein(1-
     34) [hPTHrP(1-34)], to pharmaceutical compns. comprising
     these peptide compds., and to a method of treating diseases
     associated with calcium regulation in the body. Thus,
     cyclo(Lys18-Asp22) [Ala1, Nle8, Lys18, Asp22, Leu27] hPTH(1-31)-NH2
     (I) was prepared by solid-phase methods on a Ring amide MBHA resin
     and 9-fluorenylmethoxycarbonyl (Fmoc) N\alpha-protection. I showed
     activity in a ROS 17.2/8 cell cAMP assay.
                               THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                         4
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L11 ANSWER 27 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                        1997:677238 HCAPLUS
DOCUMENT NUMBER:
                         127:341966
TITLE:
                        Raloxifene and estrogen: comparative bone-remodeling
                        kinetics
AUTHOR(S):
                        Heaney, Robert P.; Draper, Michael W.
CORPORATE SOURCE:
                        Creighton University, Omaha, NE, 68178, USA
SOURCE:
                        Journal of Clinical Endocrinology and Metabolism
                         (1997), 82(10), 3425-3429
                        CODEN: JCEMAZ; ISSN: 0021-972X
PUBLISHER:
                        Endocrine Society
DOCUMENT TYPE:
                        Journal
LANGUAGE:
                        English
     The pattern of changes in human bone remodeling produced by
     raloxifene (60 mg/day) was compared to that of estrogen (given as
    hormone replacement therapy) in 33 early
    postmenopausal women randomly assigned to raloxifene, estrogen, or
    no treatment. Remodeling was measured using calcium tracer
    kinetic methods employed under a constant diet and full metabolic
    balance conditions. Studies were performed at baseline and, to detect
    both early and late remodeling changes, at 4 and 31 wk of treatment. Both
    raloxifene and estrogen produced a significant pos. calcium
    balance shift at each treatment measurement point: +74 and +60 mg/day at 4
    wk, and +60 and +91 mg/day at 31 wk for raloxifene and estrogen, resp.
    Externally, this balance change was due to a highly significant fall in
    the urinary calcium level and marginal improvement in
    calcium absorption efficiency. Internally, bone resorption was
    significantly reduced at both measurement points: -64 and -60 mg/day at 4
    wk, and -82 and -162 mg/day at 31 wk for raloxifene and estrogen, resp.
    Bone formation was not significantly affected by either
    agent at 4 wk; at 31 wk, formation was reduced by estrogen, but
    not by raloxifene. Thus, at 4 wk, the general pattern of remodeling
    change was identical for the two agents. At 31 wk, remodeling
    suppression was greater for estrogen than for raloxifene; however,
    remodeling balance was the same for the two agents. We conclude
    that raloxifene and estrogen affect the bone remodeling apparatus similarly,
    and that raloxifene, therefore, is acting on bone as an estrogen agonist.
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L11 ANSWER 28 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1981:474268 HCAPLUS

· DOCUMENT NUMBER:

95:74268

TITLE:

Treatment with human parathyroid

hormone fragment (hPTH 1-

34) stimulates bone

formation and intestinal calcium

absorption in the greyhound: comparison with data

from the osteoporosis trial

AUTHOR (S):

Podbesek, R. D.; Stevenson, R.; Zanelli, G. D.;

Edouard, C.; Meunier, P. J.; Reeve, J.; Parsons, J. A.

CORPORATE SOURCE:

Natl. Inst. Med. Res., London, NW7, UK

SOURCE:

International Congress Series (1981), Volume Date

1980, 511 (Horm. Control Calcium Metab.), 118-23

CODEN: EXMDA4; ISSN: 0531-5131

DOCUMENT TYPE:

Journal

LANGUAGE:

English

The pulsatile s.c. administration of human parathyroid hormone1-34 (PTH) [52232-67-4] to greyhounds was more effective than continuous s.c. infusion in stimulating osteoid formation in bone as well as in stimulating Ca absorption and Ca skeletal accretion. Both methods of administration had similar effects on bone resorption surfaces. The osteoclast count was elevated to the same extent by both methods of administration. A single daily injection of PTH markedly increased Ca intestinal absorption in dogs in contrast to results found in postmenopausal osteoporosis patients. The greyhound appears to be a useful model for understanding human Ca metabolism and cellular biol. of bones.

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=> d que stat l19
               1 SEA FILE=REGISTRY ABB=ON
                                            "HPTH-(1-34)"/CN
L2
               1 SEA FILE=REGISTRY ABB=ON
                                            "VITAMIN D"/CN
               1 SEA FILE=REGISTRY ABB=ON CALCIUM/CN
L3
         161514 SEA FILE=HCAPLUS ABB=ON (?BONE?(3A)(?FRACT? OR ?FORM? OR
L4
                 ?LOSS? OR ?LOSE?) OR ?OSTEPOROSIS? OR ?OSTEOGENESIS? OR
                 ?SPINE? OR ?SPINAL?)
L5
            1004 SEA FILE=HCAPLUS ABB=ON L4 AND (L1 OR HPTH(W)(1-34) OR ?HPTH?
                 OR ?HUMAN?(W)?PARATHYROID?(W)?HORMONE?(3W)(1-34) OR ?HORMONE?(W
                 ) ?REPLACEMENT? (W) ?THERAPY?)
L6
             300 SEA FILE=HCAPLUS ABB=ON L5 AND (L2 OR L3 OR ?VITAMIN? (W) D OR
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L7
             229 SEA FILE=HCAPLUS ABB=ON L6 AND (AGE? OR ?AGING? OR ?GERIAT?
                OR ?SENIL? OR ?MENOPAUS? OR ?KLINEFELTER? (W) ?SYNDROM? OR
                 ?HYPOGONAD? OR ?GONAD? (W) ?DISORDER?)
             168 SEA FILE=HCAPLUS ABB=ON L7 AND (?HUMAN? OR ?PATIENT?)
rs
               2 SEA FILE=HCAPLUS ABB=ON L8 AND (?REDUCE? OR ?LESSEN? OR
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                 ?CONTROL? OR ?DECREAS?) (W) ?RISK?
L10
             168 SEA FILE=HCAPLUS ABB=ON L8 OR L9
             28 SEA FILE=HCAPLUS ABB=ON L10 AND (?METHOD? OR ?TECHNIQ?)
L11
L12
            343 SEA L11
            241 DUP REMOV L12 (102 DUPLICATES REMOVED)
L13
L14
             67 SEA L13 AND (MONITOR? OR DETECT? OR DETERMIN?)
              1 SEA L14 AND HPTH(W)(1-34)
L15
              1 SEA L14 AND ?HUMAN?(W) ?PARATHYROID?(W) ?HORMON?(W)(1-34)
L16
              1 SEA L15 OR L16
L17
L18
              7 SEA L14 AND ?GONAD?
L19
              8 SEA L17 OR L18
=> d ibib abs 119 1-8
L19 ANSWER 1 OF 8
                       MEDLINE on STN
ACCESSION NUMBER:
                    2004358374
                                   IN-PROCESS
DOCUMENT NUMBER:
                    PubMed ID: 15262455
TITLE:
                    Teriparatide: a review.
AUTHOR:
                    Quattrocchi Elaena; Kourlas Helen
CORPORATE SOURCE:
                    Pharmacy Practice Department, Arnold and Marie Schwartz
                    College of Pharmacy and Health Sciences, Long Island
                    University, Brooklyn, New York 11201-5497, USA.
SOURCE:
                    Clinical therapeutics, (2004 Jun) 26 (6) 841-54. Journal code: 7706726. ISSN: 0149-2918.
PUB. COUNTRY:
                    United States
DOCUMENT TYPE:
                    Journal; Article; (JOURNAL ARTICLE)
LANGUAGE:
                    English
FILE SEGMENT:
                    IN-PROCESS; NONINDEXED; Priority Journals
ENTRY DATE:
                    Entered STN: 20040721
                    Last Updated on STN: 20040723
     BACKGROUND: Traditionally, the management of osteoporosis in men and women
AΒ
     has included the use of antiresorptive agents in combination
     with calcium and vitamin D supplementation.
     The mechanism of action of teriparatide is unique in that it possesses
     anabolic properties and therefore builds bone. Since the approval of
     teriparatide in the United States in 2002, a great deal of interest
     regarding its use in osteoporosis has developed. OBJECTIVES: This article
     reviews the information available on the new recombinant human
     parathyroid hormone teriparatide (hPTH [
     1-34]), including its clinical pharmacology, mechanism
     of action, pharmacokinetic properties, clinical efficacy, safety profile,
     potential drug interactions, contraindications and warnings, dosage and
     administration, and pharmacoeconomics. METHODS: The articles
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included in this review were identified through searches of PubMed and MEDLINE (1966-December 2003) and International Pharmaceutical Abstracts (1970-December 2003). Search terms included teriparatide, Forteo, recombinant human parathyroid hormone (1-34), and osteoporosis. The references of the identified articles were reviewed for additional publications. Specific product information was also obtained from the manufacturer of teriparatide. RESULTS: Teriparatide has been studied in postmenopausal women with osteoporosis, drug-induced osteoporosis (specifically, corticosteroid-induced osteoporosis), and men with osteoporosis. The data available from various clinical trials have shown an increase in both bone mineral density (BMD) and bone mineral content (BMC) with the use of teriparatide compared with placebo. One study found that women treated with the 20-microg dose and the 40-microg dose were 35% and 40%, respectively, less likely to have one or more new nonvertebral fractures compared with placebo (P = 0.02). Another study compared the use of daily teriparatide 40-microg injections versus oral daily alendronate. Results showed that the incidence of nonvertebral fractures was significantly lower in the teriparatide group than the alendronate group (P < 0.05). A study using 20- and 40-microg daily injections of teriparatide was performed in men with osteoporosis. There was a statistically significant increase in lumbar spine BMD of 5.9% in the 20-microg group and 9.0% in the 40-microg group (both, P < 0.001). In the femoral neck, a 1.5% increase in BMD occurred in the 20-microg group (P = 0.021) and a 0.9% increase in the 40-microg group (P < $0.\overline{001}$). A limited number of studies are available assessing the combination of antiresorptive medications and teriparatide; however, the available data suggest that the effects of teriperatide do not require prior stimulation of bone resorption. CONCLUSIONS: Teriparatide has been shown clinically to improve BMD and BMC in postmenopausal women and in men. Because of its anabolic capabilities, teriparatide can be used as an alternative to the traditional therapies that are currently available for the treatment of osteoporosis, with scheduled monitoring for adverse effects such as hypercalcemia and urinary calcium excretion. In 1 study, mild hypercalcemia was seen most often 4 to 6 hours after SC injection of teriparatide before returning to normal. Urinary calcium was observed to increase by 30 mg/d (0.75 mmol/d) with teriparatide.

L19 ANSWER 2 OF 8 MEDLINE ON STN ACCESSION NUMBER: 96378606 MEDLINE DOCUMENT NUMBER: PubMed ID: 8784169

TITLE: Osteoporosis prevention and treatment.

AUTHOR: Bellantoni M F

CORPORATE SOURCE: Division of Geriatric Medicine, Johns Hopkins Medical

School, Baltimore, MD, USA.

SOURCE: American family physician, (1996 Sep 1) 54 (3) 986-92,

995-6. Ref: 31

Journal code: 1272646. ISSN: 0002-838X.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 199610

ENTRY DATE: Entered STN: 19961022

Last Updated on STN: 19961022 Entered Medline: 19961004

AB Bone fragility resulting from osteoporosis places a significant percentage

of elderly women and other patient groups at risk for bone fracture. Risk factors for osteoporosis include hypogonadal states (particularly menopause), smoking, low calcium intake, lack of weight-bearing exercise, family history and use of certain medications. Preventive strategies are based on achieving and maintaining optimal bone mass through diet, exercise. appropriate use of hormone replacement therapy and avoidance of adverse influences, particularly smoking and certain medications. Laboratory investigations are of limited use in the detection and assessment of osteoporosis, but new techniques may help physicians identify patients with accelerated bone metabolism. Currently, the most precise method of radiologically assessing osteoporosis is dual-energy x-ray absorptiometry. Many new agents for the treatment of osteoporosis are being examined. First-line therapies currently include alendronate and calcitonin. The choice of therapy must be individualized and combined with advice about nutrition and exercise, both to optimize bone density and to minimize the risk of trauma.

L19 ANSWER 3 OF 8 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN

ACCESSION NUMBER: 2002:235719 BIOSIS DOCUMENT NUMBER: PREV200200235719

TITLE: The role of tacrolimus (FK506)-based immunosuppression on

bone mineral density and bone turnover after cardiac transplantation: A prospective, longitudinal, randomized,

double-blind trial with calcitriol.

AUTHOR(S): Stempfle, Hans-Ulrich [Reprint author]; Werner, Christiane;

Siebert, Uwe; Assum, Tanja; Wehr, Uli; Rambeck, Walter A.;

Meiser, Bruno; Theisen, Karl; Gartner, Roland

CORPORATE SOURCE: Department of Cardiology, Medizinische Klinik, Klinikum

Innenstadt, Ludwig-Maximilians University, Ziemssenstrasse

1, 80336, Munich, Germany

SOURCE: Transplantation (Baltimore), (February 27, 2002) Vol. 73,

No. 4, pp. 547-552. print. CODEN: TRPLAU. ISSN: 0041-1337.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 10 Apr 2002

Last Updated on STN: 10 Apr 2002

AB Background: Tacrolimus (FK506) is a new immunosuppressive drug in organ transplantation that has demonstrated experimentally to be more deleterious on bone mineral metabolism than cyclosporine. The purpose of this clinical study was to evaluate the effects of a tacrolimus-based immunosuppression on the skeleton and to investigate in a prospective, longitudinal, randomized, double-blind, study the effect of 0.25 mug calcitriol (1,25-dihydroxyvitamin D3) versus placebo in the prevention of bone loss and fracture rate after heart transplantion (HTx). Methods: A total of 53 patients (5 female, 48 male, mean age: 53+-11 years) were randomized to the study medication. Basic therapy included calcium and sex hormone replacement in hypogonadism. Bone mineral density of the lumbar spine (LS) and femoral neck (FN) were performed at baseline, after 12 and 24 months. Biochemical indexes of mineral metabolism were measured every 3 months. Results: Overall bone mineral density (BMD) was significantly decreased after HTx (T-score-LS: 89+-13%; FN: 88+-14%). LS-BMD (% change in g/cm2) increased significantly within the study period in the calcitriol group (12 months: 7.1+-8.1%, P<0.01; 24 months: 14.0+-10.1%, P<0.01) and showed a positive trend in the placebo group (12 months: 4.5+-9.3%, NS; 24 months: 6.2+-8.0%, NS). FN-BMD in the calcitriol group was stable (12 months: -2.1+-4.2%; NS; 24 months:

-0.9+-3.2%, NS). FN-BMD in the placebo group decreased significantly within the first 12 month follow-up period (-7.3+-5.4; P<0.05) and stabilized within 2 years (-8.0+-4.1%; P<0.05). Fracture incidence was low during the study interval (first year: 5.0%, second year: 0%). Bone resorption markers decreased significantly during calcitriol therapy. Conclusions: High dose tacrolimus-based immunosuppressive regimen is associated with a rapid bone loss early after cardiac transplantation. Beyond the first 6 months after HTx, calcium, vitamin D, and hormone supplementation in hypogonadism lead sufficiently to bone mineral recovery. Besides immunosuppression, both concomitant hypogonadism and secondary hyperparathyroidism play a major role for the bone loss and should be therefore monitored and treated adequately. Low dose calcitriol should be substituted for at least 2 years as additional antiresorptive therapy.

L19 ANSWER 4 OF 8 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN

ACCESSION NUMBER:

2001:308406 BIOSIS

DOCUMENT NUMBER:

PREV200100308406

TITLE:

Longitudinal evaluation of the contribution of hypogonadism to the severity of osteoporosis in

homozygous beta-thalassemia.

AUTHOR (S):

Chatterjee, R. [Reprint author]; Gemidjioglu, M. E.; Davis,

B. A.; Helal, M. A.; Cullum, I.; Porter, J. B.

CORPORATE SOURCE:

Department of Reproductive Medicine, University College,

London, UK

SOURCE:

Blood, (November 16, 2000) Vol. 96, No. 11 Part 2, pp. 23b.

print.

Meeting Info.: 42nd Annual Meeting of the American Society of Hematology. San Francisco, California, USA. December

01-05, 2000. American Society of Hematology.

CODEN: BLOOAW. ISSN: 0006-4971.

DOCUMENT TYPE:

Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

LANGUAGE:

English

ENTRY DATE:

Entered STN: 27 Jun 2001

Last Updated on STN: 19 Feb 2002

AB With increased longevity in homozygous beta thalassemias (HbetaT) osteopenia-osteoporosis has emerged as a serious problem, impairing quality of life. In cross sectional studies, underproduction of sex steroids secondary to hypogonadotrophic hypogonadism (HH) has been shown to play an important role. If HH is the predominant etiology, then timely use of hormone replacement therapy (HRT) should be as effective as in patients with osteopenia resulting only from underproduction of sex steroids, such as in premature ovarian failure (POF). We therefore examined the longitudinal effects of HRT (parenteral testosterone (TRT) in males and oral cyclical estrogen (ERT) in females) on bone density (BMD) in 92 patients with HbetaT (F=50, M=42) over a 15 year period. BMD responses to HRT in females with HbetaT (median follow up 7 yrs) were compared with responses of 375 non-thalassemic women with POF receiving HRT for a median of 8yrs. BMD of the lumbar spine and femur were determined by dual energy X-ray absorptiometry. Osteoporosis and osteopenia were defined according to the WHO criteria (BMD >2.5SD and >1SD respectively below the peak bone mass in healthy controls, expressed as the T score). We also analyzed the relative influence of other factors including serum ferritin and polymorphisms in 3 candidate genes associated with osteoporosis; type 1 collagen, estrogen receptor and vitamin D receptor genes. Females with HbetaT were severely osteopenic, particularly in the spine, (mean spinal T score =

-0.79+-0.52). In acycling females with HbetaT (n=36), mean spinal BMD was markedly lower (T score = -2.26+-0.17) than in the cycling group (n=14) (T = -1.7+-0.34, P<0.05). The acycling females with HbetaT also responded poorly to ERT (pre treatment spinal T =-0.75+-0.02 vs -0.68+-0.10 post treatment). By contrast, POF patients responded to HRT favorably (pre ERT spinal T = -0.88+-0.2 vs post ERT = -0.094+-0.02, P< 0.001). Male thalassemics were also severely osteopenic (spinal BMD T score = -0.75+-1.2) but there was no difference in the BMD between males with spontaneous puberty (T = -0.75+-0.3, n=13) and those with HH (T = -0.78+-0.8, n=29). TRT produced a good response in the males (spinal T score, pre HRT = -0.77+-0.3 vs -0.083+-0.2 post HRT, P<0.001). There was no association between the degree of osteopenia and the 3 candidate genes, serum ferritin and age of onset of chelation in both sexes. These findings show the importance of HH to osteopenia in females with HbetaT. However the poor response of these females to ERT could indicate relative target organ resistance to estrogen in HbetaT.

L19 ANSWER 5 OF 8 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN

ACCESSION NUMBER:

1999:517948 BIOSIS

DOCUMENT NUMBER:

PREV199900517948

TITLE:

Prevention of osteoporosis after cardiac transplantation. A

prospective, longitudinal, randomized, double-blind trial

with calcitriol.

AUTHOR (S):

Stempfle, Hans-Ulrich [Reprint author]; Werner, Christiane; Echtler, Sylvia; Wehr, Uli; Rambeck, Walter A.; Siebert, Uwe; Ueberfuhr, Peter; Angermann, Christiane E.; Theisen,

Karl; Gaertner, Roland

CORPORATE SOURCE:

Department of Cardiology, Medizinische Klinik, Klinikum Innenstadt, Ludwig-Maximilians University, Ziemssenstrasse

1, 80336, Munich, Germany

SOURCE:

Transplantation (Baltimore), (Aug. 27, 1999) Vol. 68, No.

4, pp. 523-530. print.

CODEN: TRPLAU. ISSN: 0041-1337.

DOCUMENT TYPE:

LANGUAGE:

Article English

ENTRY DATE:

Entered STN: 3 Dec 1999

Last Updated on STN: 3 Dec 1999

AB Background: Accelerated bone loss is a well-recognized complication after cardiac transplantation (HTx) due to immunosuppressive therapy. The purpose of this prospective, longitudinal, randomized, placebo-controlled, double-blind study was to investigate the effect of calcitriol (1,25-dihydroxyvitamin D3) in the prevention of bone loss and fracture rate after HTx. Methods: Basic therapy included 1000 mg of calcium daily and sex hormone replacement in hypogonadal patients. A total of 132 patients (111 male, 21 female; mean age: 51+-10 years; 35+-25 months after HTx) were randomized to 0.25 mug of calcitriol or placebo. Bone mineral density (BMD, g/cm2; T score, %) of the lumbar spine and x-rays for the assessment of vertebral fractures were performed at baseline and after 12, 24, and 36 months. Biochemical indexes of mineral metabolism were measured every 3 months. Results: Overall BMD was significantly decreased after HTx (T score 87+-13%). BMD increased continuously within the studyperiod in the calcitriol group (1 year: 2.2+-4.8%; 2 years: 3.9+-5.4%; 3 years: 5.7+-4.4%) as well as in the placebo group (1 year: 1.8+-4.9%; 2 years: 3.7+-6.5%; 3 years: 6.1+-7.8%) without statistical difference between the groups. Fracture incidence was low during the study interval (1 year: 2.0%; 2 years: 3.4%; 3 years: 0%). Hypogonadism (20%) was associated with a lower BMD (78+-12% vs. 88+-12%; P<0.01) and a higher increase (35%) after hormone replacement in

comparison to normogonadal patients. Increased intact · parathyroid hormone and bone resorption markers decreased significantly during therapy. Conclusions: Calcium supplementation and sex hormone replacement in hypogonadism proved a sufficient long-term prevention therapy to improve decreased BMD and to prevent fractures after HTx. Besides immunosuppression, both concomitant hypogonadism and secondary hyperparathyroidism play a major role in the long-term bone loss and should therefore be monitored and treated adequately. Low-dose calcitriol demonstrated no significant extra benefit regarding BMD and fracture rate in the long-term period after HTx.

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ACCESSION NUMBER: 1999:316251 BIOSIS DOCUMENT NUMBER: PREV199900316251

TITLE: Bone mineral density of patients with thalassemia

major: Four-year follow-up.

AUTHOR(S): Molyvda-Athanasopoulou, E. [Reprint author]; Sioundas, A.;

Karatzas, N.; Aggellaki, M.; Pazaitou, K.; Vainas, I.

CORPORATE SOURCE: Aristotelian University of Thessaloniki, Thessaloniki,

54006, Greece

Calcified Tissue International, (June, 1999) Vol. 64, No. SOURCE:

6, pp. 481-484. print.

CODEN: CTINDZ. ISSN: 0171-967X.

DOCUMENT TYPE: Article LANGUAGE:

English ENTRY DATE: Entered STN: 17 Aug 1999

Last Updated on STN: 17 Aug 1999

AB The purpose of this study was to evaluate the bone mineral density (BMD) of 50 patients aged 9-28 years, with thalassemia major and to assess the alterations of bone density in a 4-year follow-up study. They were measured with a DPX densitometer at the lumbar spine and femur area and divided into three groups: preadolescents, adolescents, and adults. All patients received calcium and

vitamin D supplements, and 8 of the 50 received

hormone replacement therapy (HRT). All

patients had a significantly lower BMD compared with healthy subjects. Mean values of lumbar BMD of the three groups were 1.3, 2, and 3 standard deviations (SDs) lower than those of healthy subjects of the same age. All adolescent patients with normal

gonadal function and those who received HRT showed an increase in BMD during the period of the study. Adult patients also showed an increase in bone density as long as the treatment lasted. However, adolescent and adult patients who had hypogonadotropic

hypogonadism but could not get therapy showed a decrease in bone density. BMD of patients with thalassemia major shows a good index of bone status which should be evaluated, especially for the determination and follow-up of therapy.

L19 ANSWER 7 OF 8 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 2000158095 EMBASE

TITLE: Use of quantitative ultrasound densitometry in male

osteoporosis: Diagnosis and treatment.

AUTHOR: Wuster C.; Hadji P.

CORPORATE SOURCE: Dr. C. Wuster, University of Heidelberg, Department of

Internal Medicine I, Ingrimstr. 30, D-69117 Heidelberg,

SOURCE: Aging Male, (1999) 2/4 (228-239).

Refs: 43

ISSN: 1368-5538 CODEN: AGMAF7

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; General Review FILE SEGMENT: 003 Endocrinology

> Gerontology and Geriatrics 020

027 Biophysics, Bioengineering and Medical

Instrumentation

037 Drug Literature Index 038 Adverse Reactions Titles

LANGUAGE: English SUMMARY LANGUAGE: English

Male osteoporosis has a prevalence of around 5% (vertebral fractures). Secondary causes such as gastrointestinal diseases with malabsorption, alcoholism and malignant diseases are common. Hypogonadism is often not diagnosed since clinical signs are subtle. Diagnosis of osteoporosis is made using clinical history (risk factors), clinical examination (e.g. reduction of stature, back pain), X-ray, densitometry and laboratory work-up. Cut-off values for the WHO classification of male osteoporosis and all densitometry techniques, such as dual-energy X-ray absorptiometry (DXA), quantitative ultrasound (QUS) and quantitative computed tomography (QCT), need to be developed. QUS can be measured at the calcaneus and phalanges. Phalangeal ultrasound is especially useful because it is easily accessible, fast, radiation-free, portable and cheap. Preliminary results show that phalangeal ultrasound may detect structural deterioration, especially in patients on glucocorticoid treatment, earlier than spinal DXA. The prevention of osteoporosis is based on the intake of calcium and vitamin D or its analogs. In hypogonadal men, or in men with osteoporosis with low-to-normal or decreased testosterone levels, the use of hormone replacement therapy with testosterone for at least 10 years, with yearly andrological examination and prostate ultrasonography, will lead to a significant increase of bone density. Bisphosphonates inhibit osteoclastic bone resorption and are the most effective treatment with regards to fracture reduction. Boneforming drugs, such as fluoride or anabolic steroids, can activate osteoblasts; however, reduction in fracture incidence has not been shown.

Parathyroid hormone, growth hormone and selective estrogen receptor modulators (SERMs) are prospective treatments for the future.

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on STN

ACCESSION NUMBER: 77121661 EMBASE

DOCUMENT NUMBER:

1977121661

TITLE:

Body composition and skeletal metabolism following

pituitary irradiation in acromegaly.

AUTHOR:

Aloia J.F.; Petrak Z.; Ellis K.; Cohn S.H.

CORPORATE SOURCE:

Dept. Med., Nassau County Med. Cent., East Meadow, N.Y. 11554, United States

SOURCE:

American Journal of Medicine, (1976) 61/1 (59-63).

CODEN: AJMEAZ

DOCUMENT TYPE:

Journal

FILE SEGMENT:

003 Endocrinology 014 Radiology 023

Nuclear Medicine 006 Internal Medicine

LANGUAGE:

English

The change in body composition in acromegaly which resulted from pituitary irradiation was examined using the technic of total body neutron activation analysis. Before treatment, increased ratios of total body P:

Ca, P:K and Na:K were noted. After pituitary irradiation, the total body levels of P, Na and K were reduced in a proportion that indicated restoration of body composition towards normal. Skeletal mass (total body calcium) decreased into the range observed in osteoporosis in several patients. Trabecular bone mass, as reflected by the Singh Index, was consistently reduced, and two patients had vertebral compression fractures. Local bone mass as determined by photon absorptiometry was reduced when the values were normalized for age, sex and body size. It is postulated that in untreated acromegaly there is differential bone remodelling with an increase in cortical bone accompanied by a reduced trabecular bone mass. When reduction of hGH levels is accomplished with treatment, cortical apposition may decrease. Since the increased cortical bone mass probably aids in preventing vertebral compression fractures, the treated acromegalic patient may incur an increased risk of fractures. This risk may be increased further by the hypogonadism which may arise secondary to pituitary irradiation or surgery. It would be prudent to ensure that the hypogonadal acromegalic patient receives an adequate calcium intake and sex hormone replacement therapy.

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FILE 'REGISTRY' ENTERED AT 10:36:17 ON 03 DEC 2004
              E HPTH/CN
              1 SEA ABB=ON "HPTH-(1-34)"/CN
L1
               E VITAMIN D/CN
L2
              1 SEA ABB=ON "VITAMIN D"/CN
               E CA/CN
               E CALCIUM/CN
L3
              1 SEA ABB=ON CALCIUM/CN
     FILE 'HCAPLUS' ENTERED AT 10:37:08 ON 03 DEC 2004
        161514 SEA ABB=ON (?BONE?(3A)(?FRACT? OR ?FORM? OR ?LOSS? OR ?LOSE?)
               OR ?OSTEPOROSIS? OR ?OSTEOGENESIS? OR ?SPINE? OR ?SPINAL?)
L5
           1004 SEA ABB=ON L4 AND (L1 OR HPTH(W)(1-34) OR ?HPTH? OR ?HUMAN?(W)
               ?PARATHYROID?(W)?HORMONE?(3W)(1-34) OR ?HORMONE?(W)?REPLACEMENT
               ?(W)?THERAPY?)
           300 SEA ABB=ON L5 AND (L2 OR L3 OR ?VITAMIN? (W)D OR CA OR
L6
               ?CALCIUM?)
            229 SEA ABB=ON L6 AND (AGE? OR ?AGING? OR ?GERIAT? OR ?SENIL? OR
L7
               ?MENOPAUS? OR ?KLINEFELTER? (W) ?SYNDROM? OR ?HYPOGONAD? OR
               ?GONAD?(W)?DISORDER?)
L8
           168 SEA ABB=ON L7 AND (?HUMAN? OR ?PATIENT?)
              2 SEA ABB=ON L8 AND (?REDUCE? OR ?LESSEN? OR ?CONTROL? OR
               ?DECREAS?)(W)?RISK?
          #168 SEA ABB=ON L8 OR L9
L10
             28 SEA ABB=ON L10 AND (?METHOD? OR ?TECHNIQ?)
L11
    FILE 'MEDLINE, BIOSIS, EMBASE, JAPIO, JICST-EPLUS' ENTERED AT 10:46:58 ON
    03 DEC 2004
           343 SEA ABB=ON L11
L12
           241 DUP REMOV L12 (102 DUPLICATES REMOVED)
L13
             67 SEA ABB=ON L13 AND (MONITOR? OR DETECT? OR DETERMIN?)
L14
             1 SEA ABB=ON L14 AND HPTH(W)(1-34)
L15
             1 SEA ABB=ON L14 AND ?HUMAN?(W) ?PARATHYROID?(W) ?HORMON?(W)(1-3
               4)
L17
             1 SEA ABB=ON L15 OR L16
L18
             7 SEA ABB=ON L14 AND ?GONAD?
             8 SEA ABB=ON L17 OR L18
L19
            57 SEA ABB=ON L14 AND (AGE? OR AGING? OR GERIAT? OR SENIL?)
L20
L21
          ¥ 57 SEA ABB=ON L19 OR L20
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